

# オーストリア・ウィーン自然史博物館所蔵、ヤギ類（刺胞動物門、八放サンゴ亜綱）の標本リストおよび八放サンゴ亜綱のインデックス（2012年6月調査）

List of Japanese gorgonian coral specimens (Anthozoa, Octocorallia) in the Naturhistorisches Museum, Wien, Austria. surveyed in June 2012.

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## 【要 旨】

オーストリア・ウィーン自然史博物館（Naturhistorisches Museum, Wien; NHMW）所蔵の日本産八放サンゴ亜綱ヤギ類（刺胞動物門）標本のリスト（2012年6月調査時）及びヤギ目以外の所蔵標本インデックスである。日本産の所蔵標本は1875-1904の間に採集されたものである。キューケンタール（Willey Kükenthal）による6標本5種のタイプ標本が本調査で確認されたが、該当標本にはポーランド、ブレスラウ大学動物学博物館（Zoological museum of Blesrau University, Poland）のラベルが添付されていた。

NHMW所蔵標本に寄与した人物は以下の通りであった：エルバー（Josef Erber）、ドラージェ博士（Dr. Richard von Drasche Wartinberg）、ハーベラー博士（Dr. Haberer）、Hopeit卿？（Sr. Rais Hopeit (Hopert?)）、コーブル博士（Dr. K. Koerbl）、ピーターセン（Julius V. Petersen）、ランゾネー男爵（Baron Eugen Freiherr von Ransonnet）、ローレッツ博士（Dr. Albrecht von Roretz）、そしてオーストリア皇太子ルドルフ（crown prince Rudolf of Austria）である。所蔵標本の歴史的な考察は松本2013「うたかたの恋」皇太子ルドルフのサンゴ オーストリア＝ハプスブルク帝国と海洋」比較文明研究18：99-130及び、松本2014a「海洋生物学の冒険」人間と歴史社、参照とする。ピーターセンについては松本2014b「グレート・ノルディック（Store Nordiske）の海底電信ケーブルと日本のサンゴ」比較文明研究19：153-186参照とする。

## 【キーワード】

深海サンゴ    冷水域サンゴ    博物学    分類学    大北電信会社

## 【Abstract】

This is the list of Japanese gorgonian coral (Octocorallia, Anthozoa) and index of other

Japanese specimen in the Naturhistorisches Museum Wien (Natural History Museum, Wien: NHMW), Austria of the manuscript Matsumoto, surveyed in June, 2012). Japanese specimens recorded in during the years between 1875 and 1904. Total 6 type status materials (5 species) described by Willey Kükenthal were found in this survey with the label of zoological museum of Blesrau University, Poland. Following people have been contributed NHMW: Josef Erber, Dr. Richard von Drasche Wartinberg, Dr. Haberer, Sr. Rais Hopeit (Hopert?), Dr. K. Koerbl, Julius V. Petersen, Baron Eugen Freiherr von Ransonnet, Dr. Albrecht von Roretz, and crown prince Rudolf of Austria. See Matsumoto 2013 ("Japanese Octocoral Specimen of Crown prince Rudolf (1838-1889) von Austria Deposited in Natural History Museum-Wien, Austria". *Journal for the Comparative Study of Civilizations* 18:99-130) and 2014a ("Explorations of Marin Biology" ISBN978-4-89007-194-4) for the historical discussion of these materials. For the person Julius V. Petersen, see Matsumoto 2014b ("The relation between telegraph cables of GN Great Nordic Ltd. (Store Nordiske) and Japanese octocoral collection in Copenhagen, Denmark and Uppsala, Sweden.". *Journal for the Comparative Study of Civilizations* 19: 153-186).

#### 【Keywords】

Deep-water coral    cold-water coral    natural history  
taxonomy    GN Store Nord

This is the supplemental list of Japanese gorgonian coral specimen in the Naturhistorisches Museum Wien (Natural History Museum, Wien: NHMW), Austria of the manuscript Matsumoto, 2013. Data are referred from specimen label, index and old catalogue of the NHM-Wien. The details of the sampling history are suggested in the publication by author.

All specimens listed in this manuscript were recorded in during the years between 1875 and 1904. Total 6 type status materials (5 species) were found in this survey with the label of zoological museum of Blesrau University, Poland and described by Willey Kükenthal. Wiktor, 1974 indicated that KUKENTHAL's types of Zoological Museum of the Breslau University are marked with a small asterisk in the corner of label only. Therefore the asterisk of the bottle label of NHMW also seems to indicate the type material. The condition of preservation of specimen is basically dried except Blesrau materials. Within

an order the families, genera and species are listed alphabetically in each suborder or family. Each material is provided with the alt number (A.N.: old number (English)) of the original Naturhistorisches Museum, Wien catalogue and a current Invertebrate number of the Naturhistorisches Museum, Wien (Musei Vindobonensis). Both card index and old catalogue were examined for the details of existing Japanese materials.

Following people have been contributed museum collection of Japanese octocoral. Josef Erber, Dr. Richard von Drasche Wartinberg, Dr. Haberer, Sr. Rais Hopeit (Hopert?), Dr. K. Koerbl, Julius V. Petersen, Baron Eugen Freiherr von Ransonnet, Dr. Albrecht von Roretz, and Crown prince Rudolf of Austria,

It is worth to mention that there are two specimens with the names of Crown prince Rudolf von Habsburg Empire (1858-1889) on the labels and catalogue information in NHMW octocoral collection. Crown prince Rudolf (Kronprinz Rudolf (German)) is the son of Emperor Franz Josef I of Austria (1848-1916) and Empress Elizabeth of Austria (1854-1898).

Dr. Richard von Drasche Wartinberg (1850-1923) visited Japan between 1875 and 1876 of Far-East expedition. During his stay in Japan, he had sampling trip around Tokyo and also had research expedition with Dr. Roretz who has lived at Nagoya. Eno-shima located in Sagami-Bay and close to Yokohama. It was famous sightseeing spot for foreign naturalists that there are souvenirs shops of marine organisms in old days. Nagoya located between Tokyo and Osaka and in front of Ise-Bay. Dr. Drasche donated his collection to Musei Vindobonensis when he returned from Japan. His travelling routes could explain the locality data as both Eno-shima and Nagoya in the NHMW catalogue. (Matsumoto, 2013, 2014a; Pantzer, 1970, 1973).

Dr. Albrecht von Roretz (1846-1884) learned medicine at University of Wien and visited Japan as a medical doctor of the legation staff of Austria-Hungary Empire. Then he was employed as a teacher of "Aichi-kenritsu-kouritu-igakkou (Nagoya University Graduate School of Medicine)" in May, 1876, of "Ishikawa-kenritsu Kanazawa Igakkou (Kanazawa University. Graduate School of Medical Sciences)" in 1880 and "Yamagata City Hospital SAISEIKAN" at Yamagata prefecture in Japan in 28th September, 1880. His name is remembered as one of the pioneer of Japanese medical school in Japan. (Matsumoto, 2013, 2014a; Pantzer, 2009).

Baron Eugen Freiherr von Ransonnet (1838-1926) (Inv. Nr. 12690, A.N.4837) is the person who constructed diving bell and made first sketches of under water in the Red Sea

and Ceylon (Sri Lanka). He visited Japan as diplomat in 1869. It was a time that Japan and Austria-Hungary Empire established of diplomatic relations, treaty of Amity, Commerce and Navigation between Austria and Japan of 18th October, 1869 (it is called unequal treaties for Japan). When Austrian representatives have an audience of the Meiji-Emperor, Austrian Bosendorfer grand piano was gifted to Japanese Emperor from Franz Josef, Emperor of Austria (1830-1916). Diplomat Baron Ransonnott has played the Bosendorfer grand piano in the Imperial Palace of Tokyo on 21th October, 1869 (WebRef 01). Their visiting team includes The Austro-Hungarian East Asia Expedition (1868-1871). He also joined The Vienna World Expedition, 1873 of Austria-Hungary Empire to Japan and visited Nagasaki in June, 1873 as a researcher of Zoology and Ethnology with Johan Xanthus of Hungary (Matsumoto, 2013, 2014a; Pantzer, 1970, 1973).

Julius V. Petersen (1852-1928) was young Danish operator of "Store Nordiske Telegraf-Selskab A/S (GN, Great Nordic Ltd. A/S; The Great Northern Telegraph Company; Great Nordic)". It was the telegraph company which was established in 1869 at Copenhagen, Denmark. He visited Japan when he was 19 years old with the opening of the branch office of Store Nordiske in Nagasaki, Japan in 1871 and officially left Japan in 1877. He published his own memorial "*Erindringer fra Japan*" in 1877 when he returned back to Denmark. However, the NHMW catalogue information shows that collected year of materials deposited in NHMW seems to be mainly 1891-1894. It is currently unknown why they are deposited in Wien and how he back to Japan again after 1877. Other 6 specimens from North West Pacific (Hongkong, Amoi) collected by Petersen were recognized to be deposited in Museum of Evolution, Uppsala University, Sweden (UUZM, UPSZTY). (Matsumoto, 2014b).

Dr. Karl Albert Haberer (1864-1941) was a German naturalist who studied medicine and natural history in Strasbourg, Berlin and Munich, Germany until 1898. He made several expeditions to East Asia between 1899 and 1904 supported by the State of Bavaria. He mostly stayed in Yokohama, Japan. His collection in Japan is reported in Japanese Zoological Journal (Anonymous, 1908). He is the person who firstly collected the tooth of "Peking Man" (*Homo erectus pekinensis*) in near Beijing, China during that period (Janus, 1975; Ruthensteiner, 2006). Other materials collected by Haberer were deposited in Zoologische Staatssammlung Munchen =Zoological State Collection Munich, ZSM, Germany: Type *Pleurocoralloides formosum*, *Euplexaura anastomosans*, *Ellisella andamanensis*, ZSM20040061, Type *Euplexaura crassa*, Type *Acalycigorgia grandiflora*,

*Acalycigorgia irregularis*, *Ellisella plexauroides*, *Acanthogorgia japonica*, *Calyptrophora kerberti*, Type *Melithaea densa*, Type *Paraplexaura asper*.

The following abbreviations are used in the text:

NHMW No. : Naturhistorisches Museum Wien, Invertebrate number.

A.N. : Naturhistorisches Museum Wien, Old catalogue number.

OCTOCORALLIA

Order Alcyonacea

Suborder Scleraxonia

Family Melithaeidae

\**Melithaea flabellifera* (Kükenthal, 1908)

Types

Inv. Nr. 2426

A.N. 1817

Locality: Japan, (Eno-shima, Nagoya)

Collector: Dr. Drasche, mostly collected by traveling companion Koerbl

Catalogue: Japan (Eno-shima, Nagoya) D. Richard Drasche gesammelt von desten reisebegleiter D.K. Koerbl

Catalogue year: 1877 VII-VIII, 18, 19

Bottle Label: 1) \**Melitodes flabellifera* Kükenthal. Zool. Museum Breslau. 2) Wiener. Museum.

Remarks: Alc. 1 yellow and 1 red colonies. Types!

*Melithaea japonica* (Verrill, 1865)

Inv. Nr. 8046

A.N. 1156

Locality: Japan

Collector: Josef Erber (Dr. Roretz), 1875

Catalogue: 1156: *Sabella*. Nagasaki. J. Erber in Wien (D A. v. Roretz) K.

Remarks: Dried. red colony. label 1) *Acabaria japonica* (Verr. Japan. 1156. 2) *Acabaria japonica* I.Nr.8046.

*Melithaea japonica* (Verrill, 1865)

Inv. Nr. 8047

A.N. 1818

Locality: Japan, (Eno-shima, Nagoya)

Collector: Dr. Drasche, mostly collected by traveling companion Koerbl

Catalogue: *Melithaea*, Japan (Eno-shima, Nagoya) D. Richard Drasche gesammelt von  
desten reisebegleiter D.K. Koerbl

Catalogue year: 1877 VII-VIII, 20,21

Remarks: Dried. red colony. label 1) *Mopsella japonica* Verr. Eno-sima. 2) Geschenk des  
Freiherren Dr. Richard v. Drasche. 3) 217. (See *Melithaea flabellifera* of Inv. Nr.2426 for  
the details information of Dr. Drasche)

*Melithaea japonica* (Verrill, 1865)

Inv. Nr. 12690

A.N. 1122, 4837

A.N. 1122

Locality: Japan

Collector: bought by Josef Erber in Wien (Dr. Roretz)

Catalogue: *Melitella japonica*, Japan. Jos. Erber in Wien (D. a.v. Roretz);

Catalogue year: 1875

A.N. 4837

Locality: Eno-shima, Japan

Collector: Baron Eugen von Ransonnet, East Asian Expedition.

Catalogue: *Mopsella japonica* Verr. Eno-sima, Baron Eugen von Ransonnet ostasiatische  
Exp.

Catalogue year: ? (could be 1868-1871)

Remarks: Dried. 4 colonies of 1 red, 3 orange colony. label 1) Coll. Musei Vindobonensis  
Evertebr. varia Inv. Nr. 12690 *Mopsella japonica* Verrill. Eno-sima Baron Eug. v.  
Ransonnett Nlle?? Inv.Nr. 4837 4 Sbiuke 2) *Mopsella japonica* Verr. Baron Eug. v.  
Ransonnet ostasiatische Ex. 446 J: 1122, 4837 Eno-sima 4 Inv. Nr. 12690.

#### Suborder Holaxonia

Family Gorgoniidae

*Gorgonia ventalina* Linnaeus, 1758

Inv. Nr.8132

A.N.1076

Locality: Japan

Collector: Sr. Rais Hopeit? to? Kronprinz Rudolf, 1875

Catalogue: *Gorgonia* Sr. Rais Hopeit?(Hopert?) dem Kronprinz Rudolf.

Catalogue year: 1875

Remarks: Dried. label 1) *Gorgonia* spec?.

det. Leen van Ofwegen, 3<sup>rd</sup> March, 2012

The locality is recorded as Japan in the catalogue of the year 1875, however this species of gorgonian coral never distribute in Japanese waters. *Gorgonia ventalina* is Caribbean species. This material might be collected during the cruise to/from Japan.

*Lophogorgia* sp.

Inv. Nr. -

A.N. 1819

Locality: Japan, (Eno-shima, Nagoya)

Collector: Dr. Drasche, mostly collected by traveling companion Koerbl,

Catalogue: *Lophogorgia*, Japan (Eno-shima, Nagoya) D. Richard Drasche gesammelt von  
desten reisebegleiter D.K. Koerbl

Catalogue year: 1877 VII-VIII, 22

Remarks: no material found in this survey.

*Lophogorgia* sp.

Inv. Nr. -

A.N. 1820

Locality: Japan, (Eno-shima, Nagoya)

Collector: Dr. Drasche, mostly collected by traveling companion Koerbl,

Catalogue: *Lophogorgia*, Japan (Eno-shima, Nagoya) D. Richard Drasche gesammelt von  
desten reisebegleiter D.K. Koerbl

Catalogue year: 1877 VII-VIII, 23

Remarks: no material found in this survey.

Family Plexauridae

*Astrogorgia* sp.

Inv. Nr.8108

A.N.1076

Locality: Japan

Collector: Sr. Rais Hopeit? to? Kronprinz Rudolf, 1875

Remarks: Dried. 1 red colony. label 1) *Leptogorgia* 468 J:1076 Japan 1.

Catalogue: *Gorgonia* Sr. Rais Hopeit(Hopert?) dem Kronprinz Rudolf.

Catalogue year: 1875

det. Leen van Ofwegen, 3<sup>rd</sup> March, 2012

\**Echinogorgia spinosa* (Kükenthal, 1908)

Type

Inv. Nr. 2432

A.N. 14454

Locality: LAT 33° 5'N, LON 129° 22'E, 25 fath. Temp. 30. Aug. 1893

Collector: Julius von Petersen, "Store Nordiske" in Nagasaki

Catalogue: *Riedenkorcille?*, lat N33° 5' long E. 129° 22'. 25 fath. Temp. 30. Aug. 1893. V. Petersen in Nagasaki

Catalogue year: 1894

Remarks: Alc. bottle label 1) \**Paraplexaura spinosa* Kükenthal. Zool. Museum Breslau., 2) Wiener. Museum.

This material has been collected in August 1893 and recorded in Catalogue in 1894. Type materials do not exist in Zoological Museum of Breslau University according to Wiktor, 1974.

\**Echinogorgia spinosa* (Kükenthal, 1908)

Type?

Inv. Nr. 2433

A.N. 14063

Locality: Nagasaki

Collector: Julius von Petersen, "Store Nordiske"

Catalogue year: 1892



Remarks: Alc. bottle label 1) \**Paraplexaura spinosa* Kükenthal. Zool. Museum Breslau., 2) Wiener. Museum. Inside label indicate this is the type. Type materials do not exist in Zoological Museum of Breslau University according to Wiktor, 1974.

*Echinogorgia* sp.

Inv. Nr.1302

A.N. 14063

Locality: Nagasaki, LAT 33° N, LON 129° 24'E

Collector: Julius V. Petersen, "Store Nordiske"

Catalogue Year: 1892

Catalogue pager of the year 1892: Julius V. Petersen Doreder? don Felegonpbongesdleteft? auf sem Telegraph dampfer "Store Nordiske".

Remarks: Slide glass. J.V. Petersen's specimens which have been collected in 1891 were recorded in Catalogue in 1892.

*Echinogorgia* sp.

Inv. Nr.1303

A.N. 14063

Locality: Nagasaki, LAT 33° N, LON 129° 24'E

Collector: Julius V. Petersen, "Store Nordiske"

Catalogue Year: 1892

Remarks: Slide glass.

*Echinomuricea* sp.

Inv. Nr.1304

A.N. 14064

Locality: Nagasaki, LAT 33° N, LON 129° 24'E, 27 fath. 76° F

Collector: Julius V. Petersen, "Store Nordiske"

Catalogue Year: 1892

Remarks: Slide glass.

*Echinomuricea* sp.

Inv. Nr.1307

A.N. 14064

Locality: Nagasaki

Collector: Julius V. Petersen, "Store Nordiske"

Catalogue Year: 1892

Remarks: Slide glass.

*Echinomuricea* sp.

Inv. Nr.1308

A.N. 14350

Locality: Japan, LAT 33° 15', LON 129° 15'E. 40 fath.

Collector: Julius V. Petersen, "Store Nordiske"

Catalogue: *Echinomuricea*, Japan, lat 33° 15', long 129° 15'E. 40 fath. J. V. Petersen

Catalogue Year: 1893

Remarks: Slide glass.

*Echinomuricea* sp.

Inv. Nr.1309

A.N. 14350

Locality: Japan, LAT 33° 15'N, LON 129° 15'E

Collector: Julius V. Petersen, "Store Nordiske"

Catalogue: *Echinomuricea*, Japan, lat 33° 15', long 129° 15'E. 40 fath. J. V. Petersen

Catalogue Year: 1893

Remarks: Slide glass.

\**Euplexaura curvata* Kükenthal, 1908

Types

Inv. Nr. 2435

A.N. 1822

Locality: Japan, (Nagoya, Eno-shima)

Collector: Dr. Drasche, mostly collected by traveling companion Koerbl,

Catalogue: *Plexaura*, Japan (Eno-shima, Nagoya) D. Richard Drasche gesammelt von  
desten reisebegleiter D.K. Koerbl

Catalogue year: 1877 VII-VIII, 25

Remarks: Alc. \**Euplexaura curvata* n.sp. Kukenthal. det. 1907. (See *Melithaea flabellifera* of Inv. Nr.2426 for the details information of Dr. Drasche)

\**Euplexaura robusta* Kukenthal, 1908

Types

Inv. Nr. 2437

A.N. 14351

Locality: Japan, LAT 33° 15'N, LON 129° 15' E

Collector: Julias v. Petersen, "Store Nordiske"

Catalogue: *Muricella*, Japan, lat 33° 15', long 129° 15'E. 40 fath. J. V. Petersen

Catalogue Year: 1893

Remarks: Alc. *Euplexaura robusta* n.sp. Kukenthal det. 1907. bottle label 1) \**Euplexaura robusta* n.sp. Kukenthal det.1907. Zool. Museum Breslau. 2) Wiener. Museum.

*Euplexaura* sp.

Inv. Nr. 8053

A.N. 1821

Locality: Japan, (Eno-shima, Nagoya)

Collector: Dr. Drasche, mostly collected by traveling companion Koerbl,

Catalogue: *Plexaura*, Japan (Eno-shima, Nagoya) D. Richard Drasche gesammelt von desten reisebegleiter D.K. Koerbl

Catalogue year: 1877 VII-VIII, 24

Remarks: Dried. *Euplexaura* Label: 1) Coll. Musei Vindobonensis Evertabr. varia Inv. Nr.8053 *Plexaura* spec. Japan don. Dr. Koerbl 1821. 2)52. 3) *Plexaura* 462 J:1821 1 Japan.

*Paramuricea* sp.

Inv. Nr. 8094

A.N. 16368

Locality: Japan

Collector: Haberer, 1804

Remarks: Dried. label: 1) Coll. Musei Vindobonensis Evertabr. varia Inv. Nr. 8094 *Paramuricea* spec. Japan dem. Haberer 16368. 2) *Paramuricea* J:16368 Japan

*Paramuricea* sp.

Inv. Nr. 8095

A.N. 1121

Locality: Japan

Collector: bought by Josef Erber in Wien (Dr. Roretz)

Catalogue: 1875 x. *Muricea*, Japan. gekauft von J. Erber in Wien um 75ye (D. a.v. Roretz);

Catalogue year: 1875.X

Remarks: Dried. 1121, label 1) *Paramuricea* 1121 Japan. 2) 313c. 3) Coll. Musei Vindobonensis Evertabr. varia Inv. Nr. 8095 *Paramuricea* spec. Japan 1121

*Paramuricea* sp.

Inv. Nr. 1424

A.N. 1121

Locality: Japan

Collector: bought by Josef Erber in Wien (Dr. Roretz)

Catalogue: 1875 x. *Muricea*, Japan. gekauft von J. Erber in Wien um 75ye (D. a.v. Roretz);

Catalogue year: 1875.X

Remarks: Slide glass. 1121,

*Paramuricea* sp.

Inv. Nr. 1425

A.N. 1121

Locality: Japan

Collector: bought by Josef Erber in Wien (Dr. Roretz)

Catalogue: 1875 x. *Muricea*, Japan. gekauft von J. Erber in Wien um 75ye (D. a.v. Roretz);

Catalogue year: 1875.X

Remarks: Slide glass. 1121,

*Paramuricea* sp.

Inv. Nr. 8134

A.N. 16367

Locality: Japan

Collector: Haberer, 1904

Remarks: Dried. label: 1) Coll. Musei Vindobonensis Evertibr. varia Inv. Nr. 8134  
gorgonide Japan dan. Haberer 16367. 2) gorgonide J:16367 Japan

*Paramuricea* sp.

Inv. Nr. 8135

A.N. 16367

Locality: Japan

Collector: Haberer, 1904

Remarks: Dried. label: 1) Coll. Musei Vindobonensis Evertibr. varia Inv. Nr. 8135  
gorgonide Japan dan. Haberer 16367. 2) gorgonide J:16367 Japan

*Paramuricea* sp.

Inv. Nr. 8136

A.N. 16367

Locality: Japan

Collector: Haberer, 1904

Remarks: Dried. label: 1) Coll. Musei Vindobonensis Evertibr. varia Inv. Nr. 8136  
gorgonide Japan dan. Haberer 16367. 2) gorgonide J:16367 Japan

### Suborder Calcaxonina

#### Family Ellisellidae

*Ellisella laevis* (Verrill, 1865)

Inv. Nr.8148

A.N. 1120

Locality: Japan

Collector: bought by Josef Erber in Wien (Dr. Roretz)

Catalogue: 1875 x. *Juncella*, Japan. gekauft von J. Erber in Wien um 75ye (D. a.v.  
Roretz);

Catalogue year: 1875.X

Remarks: Dried. Display No. 404. *Scirpearia laevis* Verr. Erber (Kauf)

*Ellisella laevis* Verrill

Inv. Nr.1486

A.N. 1120

Locality: Japan

Collector: bought by Josef Erber in Wien (Dr. Roretz)

Catalogue: 1875 x. Juncella, Japan. gekauft von J. Erber in Wien um 75ye (D. a.v. Roretz);

Catalogue year: 1875.X

Remarks: Slide glass, *Scirpearia laevis* Verrill

#### Family Primnoidae

*Callogorgia flabellum* (Ehrenberg, 1834)

Inv. Nr. 8099

A.N.1125

Locality: Japan

Collector: bought by Josef Erber in Wien (Dr. Roretz)

Catalogue: *Calligorgia flabellum* Ehrbg, Japan. Jos. Erber in Wien (D. a.v. Roretz);

Catalogue year: 1875

Remarks: no material found in this survey.

*Calyptrophora japonica* Gray, 1866

Inv. Nr.8102

A.N. 2126

Locality: Eno-shima, Japan

Collector: Josef Erber in Wien

Catalogue: 1879 I 4, *Calyptrophora*, Eno-sima, Josef Erber in Wien.

Catalogue Year: 1879

Remarks: Dried. 1 colony. Display no.308

*Calyptrophora japonica* Gray, 1866

Inv. Nr. -

A.N. 1127

Locality: Japan

Collector: bought by Josef Erber in Wien (Dr. Roretz)

Catalogue: *Calyptraphora japonica* Gray, Japan. Jos. Erber in Wien (D. a.v. Roretz);

Catalogue year: 1875

*\*Plumarella spinosa var brevispina* Kükenthal, 1919

Types

Inv. Nr. 2440

A.N. 14062

Locality: Nagasaki, Japan, 50m

Collector: Julius V. Petersen, "Store Nordiske".

Catalogue Year: 1892

Remarks: Alc. bottle label 1) \* *Plumarella spinosa* Kükenthal var. *breuspina* n.v. Kukth.  
1906. Zool. Museum Breslau. 2) Wiener. Museum. 3) Bei Nagasaki.

Inside labels: Nov.var.! \**Plumarella spinosa* var. *breuispina* Kukth. Nagasaki (Japan) 50m.  
Kukth. det.

*Plumarella* sp.

Inv. Nr. 1450

A.N. 14062

Locality: Nagasaki

Collector: (may be Julius v. Petersen)

Remarks: Slide glass

*Plumarella* sp.

Inv. Nr. 1451

A.N. 14062

Locality: Nagasaki

Collector: - (may be Julius v. Petersen)

Remarks: Slide glass

*Plumarella* sp.

Inv. Nr. 12683

A.N. 1129

Locality: Japan

Collector: bought by Josef Erber in Wien (Dr. Roretz)

Catalogue: *Primnoide* Nr.5, Japan. Jos. Erber in Wien (D. a.v. Roretz);

Catalogue year: 1875

Remarks: Dried. 1 Ex. fragment. label 1) ? *Plumarella* Jos. Erber in Wien (Dr. M.v. Roretz) Japan. 456 J: 1129 Bruchstück des montesken Saenplires Inv. Nr. 2) Coll. Musei Vindobonensis Evertebr. varia Inv. Nr.12683. *Plumarella* sp. Japan Jos.Erber in Wien (Dr. M.v.Roretz) 1076 Bruchstuck. M.Inv.Nr.1129

*Thouarella (Euthouarella) hilgendorfi* (Studer, 1879)

Inv. Nr.15822

A.N. 1126

Locality: Japan

Collector: bought by Josef Erber in Wien (Dr. Roretz)

Catalogue: *Plumarella hilgendorfi* Stud., Japan. Jos. Erber in Wien (D. a.v. Roretz);

Catalogue year: 1875

Remarks: Dried.

*Primnoidae* sp.

Inv. Nr. -

A.N. 1128

Locality: Japan

Collector: bought by Josef Erber in Wien (Dr. Roretz)

Catalogue: *Primnoide* Nr.4, Japan. Jos. Erber in Wien (D. a.v. Roretz);

Catalogue year: 1875

Remarks: no material was found in this survey.

#### Family Isididae

*Keratoisis japonica* Studer, 1878

Inv. Nr. 15754

A.N. 1124

Locality: Japan

Collector: bought by Josef Erber in Wien (Dr. Roretz)



Catalogue: *Keratoisis*, Japan. Jos. Erber in Wien (D. a.v. Roretz);

Catalogue year: 1875

Remarks: Dried. 1 Ex. label 1) *Ceratoisis japonica* Stud. Japan. 2)225. 3) Coll. Musei Vindobonensis Evertibr. varia Inv. Nr. 15754. *Ceratoisis japonica* (Stud.) Jos. v. Erber Japan A.N.1124 1 Ex. Index 1) gekauft von Jos. Erber. Ak. y. 1875

#### Temporal INDEX for Japanese octocorals excluding gorgonians in the NHM Wien.

These are temporal index for additional possible Japanese octocoral specimen in the data base and were not checked in this study. Index is listed as following order: Species / Status in NHMW database / Inv. Nr. / Old number of the Catalogue / Locality / Collector / Catalogue information / Catalogue Year.

#### Suborder Stolonifera

##### Family Clavulariidae

*Clavularia dispersa* Kükenthal, 1906 / Inv. Nr. 2232 / A.N. 14387 / Locality: Sea of Japan, LAT 42° 8'N, LON 130° 39' E. / Collector: Julius V. Petersen, "Store Nordiske" / Catalogue year: 1893. V.

*Clavularia eburnea* Kükenthal, 1906 / Inv. Nr. 2233 / A.N. 14377a / Locality: Sea of Japan / Collector: Julius V. Petersen, "Store Nordiske" / Catalogue year: 1893.

*Clavularia peterseni* Kükenthal, 1906/ Inv. Nr. 2234 / A.N. 14377, 14389 / (A.N. 14377) Locality: Sea of Japan, 300-400; 600 fath. May, 1893 / Collector: Julius V. Petersen, "Store Nordiske" in Nagasaki / Catalogue: Alcyonide, iliSem?? 300-400; 600 fath. mai 1893, Julius Petersen in Nagasaki / Catalogue year: 1893/ (A.N. 14389) Locality: Sea of Japan, 150 fath. / Collector: Julius V. Petersen, "Store Nordiske" in Nagasaki / Catalogue: Alcyonide, iliSem?? 150 fath. Julius Petersen in Nagasaki / Catalogue year: 1893

#### Suborder Alcyoniina

##### Family Alcyoniidae

*Eleutherobia rigida* (Pütter, 1900) / Inv. Nr. 2342 / A.N. 1433 / Locality: Japan / Collector: bought by Josef Erber in Wien (Dr. Roretz) um 75ye okt; / Catalogue: *Alcyonium*, 1876. IX. Japan. angekauft von J. Erber in Wien (D. a.v. Roretz) ; /Catalogue year: 1876.IX / det. Verseveldt

*Eleutherobia rigida* (Pütter, 1900) / Inv. Nr. 2342 / A.N. 1824 / Locality: Japan (Eno-

shima, Nagoya) / Collector: Dr. Drasche, mostly collected by traveling companion Koerbl, / Catalogue: *Alcyoniide*, Japan (Eno-shima, Nagoya) D. Richard Drasche gesammelt von desten reisebegleiter D.K. Koerbl / Catalogue year: 1877 VII-VIII, 29, 30 / det. Verseveldt *Eleutherobia rubra* (Brundin, 1896) / Inv. Nr. 2343 / A.N. 14061 / Locality: Nagasaki, Japan

Collector: Julius v. Petersen, "Store Nordiske" / Catalogue year: 1892 / det. Verseveldt

#### Family Nephthidae

*Dendronephthya aculeata* Kükenthal, 1905 / Types / Inv. Nr. 2380 / A.N. - / Locality: West of Nagasaki, LAT 33° N, LON 129° 24' E / Collector: Julius V. Petersen, "Store Nordiske" / Catalogue year: 1892

*Dendronephthya candida* Pütter, 1900 / Inv. Nr. 2384 / A.N. 14056 / Locality: West of Nagasaki, Japan. LAT 33° N, LON 129° 15E; 45 fath 40° F. LAT 33° N, LON 129° 24'E; 27fath. 76° F, / Collector: Julius v. Petersen, "Store Nordiske" / Catalogue: *Spongodes*, lat 33° , long 129° 15; 45 fath 40° F. lat. 33° long. 129° 24'; 27fath. 76° F, Julius v. Petersen Catalogue year: 1892

\**Dendronephthya clavata* Kükenthal, 1905 / Type / Inv. Nr. 2386 / A.N. 14446 / Locality: South-West, Japan / Collector: Julius v. Petersen, "Store Nordiske" / Catalogue year: 1894

*Dendronephthya gigantea* Verrill, 1864 / Inv. Nr. 2391 / A.N. - / Locality: South-west, Japan / Collector: Julius v. Petersen, "Store Nordiske" / Catalogue year: 1894

*Dendronephthya gigantea* Verrill, 1864 / Inv. Nr. 2392 / A.N. - / Locality: South-west, Japan. LAT33° 15' N, LON 129° 15' E. / Collector: Julius v. Petersen, "Store Nordiske" / Catalogue year: 1894

*Dendronephthya gigantea* Verrill, 1864 / Inv. Nr. 2394 / A.N. / Locality: South-west, Japan / Collector: Julius v. Petersen, "Store Nordiske" / Catalogue year: 1894

*Dendronephthya gigantea* Verrill, 1864 / Inv. Nr. 2395 / A.N. - / Locality: West of Nagasaki, Japan / Collector: Julius v. Petersen, "Store Nordiske" / Catalogue year: 1892

*Dendronephthya gigantea* Verrill, 1864 / Inv. Nr. 2396 / A.N. / Locality: South-west, Japan / Collector: Julius v. Petersen, "Store Nordiske" / Catalogue year: 1893

*Dendronephthya japonica* Kükenthal, 1905 / Inv. Nr. 2398 / A.N. 14447 / Locality: South-west of Japan / Collector: Julius v. Petersen, "Store Nordiske" / Catalogue year: 1894

\**Dendronephthya longicaulis* Kükenthal, 1905 / Type / Inv. Nr. 2399 / A.N. 14060 / Locality: West of Nagasaki, Japan, LAT33° N, LON 129° 24'E; 27fath. 76° F / Collector:

Julius v. Petersen, "Store Nordiske", August 1891 / Catalogue: *Spongodes*, lat. 33° long. 129° 24'; 27fath. 76° F, Aug. 1891, Julius v. Petersen / Catalogue year: 1892

*Dendronephthya pectinata* Holm, 1895 / Inv. Nr. 2405 / A.N. 14348 / Locality: West off Hirado Island, Japan / Collector: Julius v. Petersen, "Store Nordiske" / Catalogue: *Spongodes*, Japan west off Hirado Island 40fath, J. v. Petersen / Catalogue Year: 1893

*Dendronephthya suensoni* Holm, 1895 / Inv. Nr. 2409 / A.N. 14445 / Locality: South West of Japan / Collector: Julius v. Petersen, "Store Nordiske" / Catalogue year: 1894

*Dendronephthya japonica* Kükenthal, 1905 / Inv. Nr. 2360 / A.N. 14390 / Locality: Sea of Japan, 150 fath. / Collector: Julius V. Petersen, "Store Nordiske" in Nagasaki / Catalogue: Alcyonide, iliSem?? 150 fath. Julius Petersen in Nagasaki / Catalogue year: 1893 / Remarks: *Eunephthya japonica*

*Dendronephthya japonica* Kükenthal, 1905 / Inv. Nr. 2361 / A.N. 14388 / Locality: Sea of Japan, 500 fath. / Collector: Julius V. Petersen, "Store Nordiske" in Nagasaki / Catalogue: Alcyonide, iliSem?? 500 fath. Julius Petersen in Nagasaki / Catalogue year: 1893 / *Eunephthya japonica*

*Dendronephthya marenzelleri* Kükenthal, 1905 / Inv. Nr. 2356 / A.N. 14376 / Locality: Sea of Japan, 500-800 fath. May, 1893 / Collector: Julius v. Petersen, "Store Nordiske" in Nagasaki / Catalogue: *Sarakka*, iliSem?, 500-800 fath. mai 1893 Julius Petersen in Nagasaki / Catalogue year: 1893 / Remarks: *Gersemia marenzelleri*

Alcyonarian sp / Inv. Nr. - / A.N. 14057 / Locality: LAT33° N, LON 129° 24'E; 27fath. 76° F, / Collector: Julius v. Petersen, "Store Nordiske" / Catalogue: *Spongodes*, lat. 33° long. 129° 24'; 27fath. 76° F, Julius v. Petersen / Catalogue year: 1892

Alcyonarian sp / Inv. Nr. - / A.N. 14058 / Locality: LAT33° N, LON 129° 24'E; 27fath. 76° F, / Collector: Julius v. Petersen, "Store Nordiske" / Catalogue: *Spongodes*, lat. 33° long. 129° 24'; 27fath. 76° F, Julius v. Petersen / Catalogue year: 1892

Alcyonarian sp / Inv. Nr. - / A.N. 14402 / Locality: / Collector: Julius v. Petersen, "Store Nordiske" in Nagasaki / Catalogue: *Spongodes*, , Julius Petersen in Nagasaki / Catalogue year: 1893

#### Order Pennatulacea

#### Family Kophobelemnidae

*Kophobelemnon affine* Studer, 1894 / Inv. Nr. 2471 / A.N. 16342 / Locality: Japan /

Collector: Julius V. Petersen, "Store Nordiske" / Catalogue year: 1903

#### Family Pennatulidae

*Pennatula fimbriata* Herklot, 1858 / Inv. Nr.2496 / A.N. 16336 / Locality: Yokohama, Japan

Collector:Haberer, 1903

#### Family Pteroeides

*Pteroeides breviradiatum* K  lliker, 1869 / Inv. Nr. 7611 / A.N. 1823 / Locality: Japan (Eno-shima-Nagoya) / Collector: Dr. Drasche, mostly collected by traveling companion Koerbl, / Catalogue: *Pteroeides*, Japan (Eno-shima, Nagoya) D. Richard Drasche gesammelt von desten reisebegleiter D.K. Koerbl / Catalogue year: 1877 VII-VIII, 26, 27,28

*Pteroeides breviradiatum* K  lliker, 1869 / Inv. Nr. 7612 / A.N. 1432 / Locality: Japan / Collector: bought by Josef Erber in Wien (Dr. Roretz) um 75ye okt; / Catalogue: *Alcyonium*, 1876. IX. Japan. angekauft von J. Erber in Wien (D. a.v. Roretz) ; / Catalogue year: 1876.IX

*Pteroeides breviradiatum* K  lliker, 1869 / Inv. Nr. 7613 / A.N. 4798 / Locality: Japan, Poulo Genang / Collector: ?, 1862

*Pteroeides breviradiatum* K  lliker, 1869 / Inv. Nr. 7614 / A.N. 16335 / Locality: Yokohama, Japan / Collector: Haberer, 1903

#### Family Stachyptilidae

*Stachyptilum dofleini* Balss, 1909 / Inv. Nr. 2474 / A.N. 16343 / Locality: Yokohama, Japan

Collector: Petersen, Dr. Haberer, 1903

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